



City of Marshall  
Electric Generation and Emissions in 2011

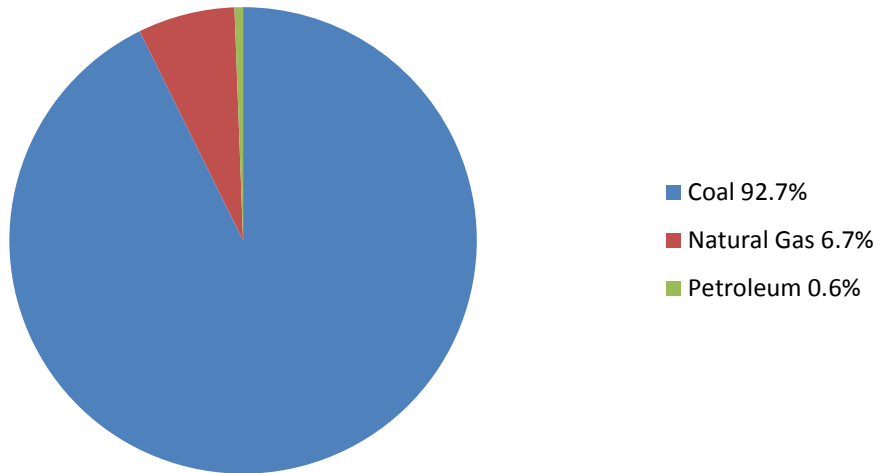
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
<b>Non-renewable sources</b>						
Coal	297,752	93.9%	93.9%	21,043	92.7%	92.7%
Natural Gas	18,045	5.7%	5.7%	1,523	6.7%	6.7%
Petroleum	1,346	0.4%	0.4%	134	0.6%	0.6%
Nuclear						
Other						
<b>Non-renewable total</b>	<b>317,143</b>	<b>100.0%</b>	<b>100.0%</b>	<b>22,700</b>	<b>100.0%</b>	<b>100.0%</b>
<b>Renewable sources</b>						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels						
Wind						
Wood						
<b>Renewable total</b>						
<b>Grand total</b>	<b>317,143</b>		<b>100.0%</b>	<b>22,700</b>		<b>100.0%</b>

Fuel Type	Physical Units	Number of Units
Anthracite Coal and Bituminous Coal	Short Tons	13,355
Natural Gas	MCf	17,663
Distillate Fuel Oil	Barrels	232



### Net Generation by Fuel Type, 2011 for City of Marshall





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Power Plant Nameplate information for City of Marshall

Plant Name	County Location	Nameplate Capacity (MW)
<i>City of Marshall</i>		229.2
Marshall	Saline	229.2



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Emissions from Electricity Generated in 2011: City of Marshall

	<b>CO2 Equivalent (TONS)</b>	<b>Carbon Dioxide (CO2) (TONS)</b>	<b>Methane (CH4) (TONS)</b>	<b>Nitrogen Dioxide (NO2) (TONS)</b>
<i>City of Marshall</i>	<i>1,087,339</i>	<i>127,274</i>	<i>14,539</i>	<i>2,112</i>
Marshall	1,087,339	127,274	14,539	2,112

	<b>Sulfur Dioxide (SO2) (TONS)</b>	<b>Annual Nitrogen Oxide (NOx) (TONS)</b>	<b>Summer Nitrogen Oxide (NOx) (TONS)</b>
<i>City of Marshall</i>	<i>1,611</i>	<i>0.0000</i>	<i>0.0000</i>
Marshall	1,611	0.0000	0.0000



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Identified Flue Gas Desulfurization (FGD) controls installed on plants operated by City of Marshall

Plant	Control Equipment	Sorbent Type
	No FGD Controls Installed	

Identified Flue Gas Particulate (FGP) controls installed on plants operated by City of Marshall

Plant	Control Equipment
Marshall	Baghouse, reverse air

**Notes:**

Generation, emissions and pollution control data include power plants owned by the utility and located in Missouri.

Emissions data calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data

Fuel Consumption and Generation Data from United States Energy Information Administration, Form 923, United States Department of Energy  
<http://www.eia.gov/electricity/data/eia923>

Pollution control data (FGD and FGP equipment) from United States Energy Information Administration, Form 860, United States Department of Energy  
<http://www.eia.gov/electricity/data/eia860/index.html>

Emissions factors for fuel-based generation from United States Environmental Protection Agency "Emission Factors for Greenhouse Gas Inventories", November 7, 2011,  
<http://www.epa.gov/climateleadership/documents/emission-factors.pdf>